

Product data sheet

Vacuum gate valve, Series 121, DN 160 (ID 6") Ordering No. 12144-PA44

Description

ISO-F 160 Flange

Actuator Pneumatic, double acting

> with solenoid valve with position indicator

Feedthrough Shaft feedthrough

Technical data

 $< 1 \cdot 10^{-9} \text{ mbar Is}^{-1}$ $< 1 \cdot 10^{-9} \text{ mbar Is}^{-1}$ Leak rate Valve body

Valve seat

1 · 10⁻⁷ mbar to 1.6 bar (abs) Pressure range

Differential pressure on the gate ≤ 1.6 bar Differential pressure at opening ≤ 30 mbar Conductance (molecular flow)

6 000 ls⁻¹

Cycles until first service 100 000 (unheated and under clean conditions)

Temperature Valve body ≤ 120 °C (Maximum values: depending ≤ 80 °C Actuator on operating conditions and Solenoid valve ≤ 50 °C sealing materials) Position indicator ≤ 80 °C

30 °C h⁻¹ Heating and cooling rate

Material Valve body EN AC-42100 (3.2371)

Mechanism EN AW-6082 (3.2315)

Seal **Bonnet** FKM (Viton®)

Gate

FKM (Viton®), O-ring FKM (Viton®), NBR (BUNA N®) Actuator

Mounting position any

Volume of pneumatic actuator 0.5 I / 0.018 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection G 1/8" (1/8" NPT for USA)

2.0 s Actuation time closing

2.0 sopening

Weight 8.6 kg / 29 lbs

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Behavior in case of compressed

Valve closed

valve remains closed

air pressure drop

Valve open

undefined

Behavior in case of power failure

Valve closed Valve open

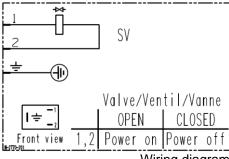
valve remains closed valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order

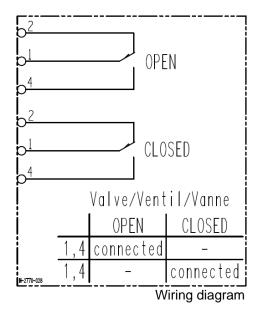


Wiring diagram

Position indicator

Type Micro Switch

Voltage ≤ 250 V AC ≤ 50 V DC Current max. ≤ 2.0 A ≤ 1.2 A



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